

#7

1632

PAGE: 1

RAW SEQUENCE LISTING
PATENT APPLICATION US/09/407,430

DATE: 04/24/2000
TIME: 07:33:56

Input Set: I407430.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

ENTERED

RECEIVED
APR 24 2003
FBI LABORATORY

```
1 <110> APPLICANT: Worman, Howard J.
2 Mamiya, Naoto
3 <120> TITLE OF INVENTION: HCV E2 PROTEIN BINDING AGENTS FOR TREATMENT OF
4 HEPATITIS C VIRUS INFECTION
5 <130> FILE REFERENCE: 0575/54805
6 <140> CURRENT APPLICATION NUMBER: US/09/407,430
7 <141> CURRENT FILING DATE: 1999-09-29
8 <160> NUMBER OF SEQ ID NOS: 3
9 <170> SOFTWARE: PatentIn Ver. 2.1
10 <210> SEQ ID NO 1
11 <211> LENGTH: 168
12 <212> TYPE: PRT
13 <213> ORGANISM: human
14 <400> SEQUENCE: 1
15 Met Asn Ser Lys Gly Gln Tyr Pro Thr Gln Pro Thr Tyr Pro Val Gln
16 1 5 10 15
17 Pro Pro Gly Asn Pro Val Tyr Pro Gln Thr Leu His Leu Pro Gln Ala
18 20 25 30
19 Pro Pro Tyr Thr Asp Ala Pro Pro Ala Tyr Ser Glu Leu Tyr Arg Pro
20 35 40 45
21 Ser Phe Val His Pro Gly Ala Ala Thr Val Pro Thr Met Ser Ala Ala
22 50 55 60
23 Phe Pro Gly Ala Ser Leu Tyr Leu Pro Met Ala Gln Ser Val Ala Val
24 65 70 75 80
25 Gly Pro Leu Gly Ser Thr Ile Pro Met Ala Tyr Tyr Pro Val Gly Pro
26 85 90 95
27 Ile Tyr Pro Pro Gly Ser Thr Val Leu Val Glu Gly Gly Tyr Asp Ala
28 100 105 110
29 Gly Ala Arg Phe Gly Ala Gly Ala Thr Ala Gly Asn Ile Pro Pro Pro
30 115 120 125
31 Pro Pro Gly Cys Pro Pro Asn Ala Ala Gln Leu Ala Val Met Gln Gly
32 130 135 140
33 Ala Asn Val Leu Val Thr Gln Arg Lys Gly Asn Phe Phe Met Gly Gly
34 145 150 155 160
35 Ser Asp Gly Gly Tyr Thr Ile Trp
36 165
37 <210> SEQ ID NO 2
38 <211> LENGTH: 363
39 <212> TYPE: PRT
40 <213> ORGANISM: hepatitis C virus
41 <400> SEQUENCE: 2
42 Glu Thr His Val Thr Gly Gly Ser Ala Gly His Thr Val Ser Gly Phe
43 1 5 10 15
44 Val Ser Leu Leu Ala Pro Gly Ala Lys Gln Asn Val Gln Leu Ile Asn
```

PAGE: 2

RAW SEQUENCE LISTING PATENT APPLICATION US/09/407,430

DATE: 04/24/2000
TIME: 07:33:56

Input Set: I407430.RAW

```

45          20          25          30
46  Thr Asn Gly Ser Trp His Leu Asn Ser Thr Ala Leu Asn Cys Asn Asp
47          35          40          45
48  Ser Leu Asn Thr Gly Trp Leu Ala Gly Leu Phe Tyr His His Lys Phe
49          50          55          60
50  Asn Ser Ser Gly Cys Pro Glu Arg Leu Ala Ser Cys Arg Pro Leu Thr
51          65          70          75          80
52  Asp Phe Asp Gln Gly Trp Gly Pro Ile Ser Tyr Ala Asn Gly Ser Gly
53          85          90          95
54  Pro Asp Gln Arg Pro Tyr Cys Trp His Tyr Pro Pro Lys Pro Cys Gly
55          100          105          110
56  Ile Val Pro Ala Lys Ser Val Cys Gly Pro Val Tyr Cys Phe Thr Pro
57          115          120          125
58  Ser Pro Val Val Val Gly Thr Thr Asp Arg Ser Gly Ala Pro Thr Tyr
59          130          135          140
60  Ser Trp Gly Glu Asn Asp Thr Asp Val Phe Val Leu Asn Asn Thr Arg
61          145          150          155          160
62  Pro Pro Leu Gly Asn Trp Phe Gly Cys Thr Trp Met Asn Ser Thr Gly
63          165          170          175
64  Phe Thr Lys Val Cys Gly Ala Pro Pro Cys Val Ile Gly Gly Ala Gly
65          180          185          190
66  Asn Asn Thr Leu His Cys Pro Thr Asp Cys Phe Arg Lys His Pro Asp
67          195          200          205
68  Ala Thr Tyr Ser Arg Cys Gly Ser Gly Pro Trp Ile Thr Pro Arg Cys
69          210          215          220
70  Leu Val Asp Tyr Pro Tyr Arg Leu Trp His Tyr Pro Cys Thr Ile Asn
71          225          230          235          240
72  Tyr Thr Ile Phe Lys Ile Arg Met Tyr Val Gly Gly Val Glu His Arg
73          245          250          255
74  Leu Glu Ala Ala Cys Asn Trp Thr Arg Gly Glu Arg Cys Asp Leu Glu
75          260          265          270
76  Asp Arg Asp Arg Ser Glu Leu Ser Pro Leu Leu Leu Thr Thr Thr Gln
77          275          280          285
78  Trp Gln Val Leu Pro Cys Ser Phe Thr Thr Leu Pro Ala Leu Ser Thr
79          290          295          300
80  Gly Leu Ile His Leu His Gln Asn Ile Val Asp Val Gln Tyr Leu Tyr
81          305          310          315          320
82  Gly Val Gly Ser Ser Ile Ala Ser Trp Ala Ile Lys Trp Glu Tyr Val
83          325          330          335
84  Val Leu Leu Phe Leu Leu Leu Ala Asp Ala Arg Val Cys Ser Cys Leu
85          340          345          350
86  Trp Met Met Leu Leu Ile Ser Gln Ala Glu Ala
87          355          360
88 <210> SEQ ID NO 3
89 <211> LENGTH: 254
90 <212> TYPE: PRT
91 <213> ORGANISM: Hepatitis C virus
92 <400> SEQUENCE: 3
93  Gly Ala Lys Gln Asn Val Gln Leu Ile Asn Thr Asn Gly Ser Trp His
94      1          5          10          15

```

PAGE: 3

RAW SEQUENCE LISTING PATENT APPLICATION US/09/407,430

DATE: 04/24/2000
TIME: 07:33:56

Input Set: I407430.RAW

```

95      Leu Asn Ser Thr Ala Leu Asn Cys Asn Asp Ser Leu Asn Thr Gly Trp
96              20                      25                      30
97      Leu Ala Gly Leu Phe Tyr His His Lys Phe Asn Ser Ser Gly Cys Pro
98              35                      40                      45
99      Glu Arg Leu Ala Ser Cys Arg Pro Leu Thr Asp Phe Asp Gln Gly Trp
100             50                      55                      60
101      Gly Pro Ile Ser Tyr Ala Asn Gly Ser Gly Pro Asp Gln Arg Pro Tyr
102             65                      70                      75                      80
103      Cys Trp His Tyr Pro Pro Lys Pro Cys Gly Ile Val Pro Ala Lys Ser
104              85                      90                      95
105      Val Cys Gly Pro Val Tyr Cys Phe Thr Pro Ser Pro Val Val Val Gly
106              100                     105                     110
107      Thr Thr Asp Arg Ser Gly Ala Pro Thr Tyr Ser Trp Gly Glu Asn Asp
108              115                     120                     125
109      Thr Asp Val Phe Val Leu Asn Asn Thr Arg Pro Pro Leu Gly Asn Trp
110              130                     135                     140
111      Phe Gly Cys Thr Trp Met Asn Ser Thr Gly Phe Thr Lys Val Cys Gly
112             145                     150                     155                     160
113      Ala Pro Pro Cys Val Ile Gly Gly Ala Gly Asn Asn Thr Leu His Cys
114              165                     170                     175
115      Pro Thr Asp Cys Phe Arg Lys His Pro Asp Ala Thr Tyr Ser Arg Cys
116              180                     185                     190
117      Gly Ser Gly Pro Trp Ile Thr Pro Arg Cys Leu Val Asp Tyr Pro Tyr
118              195                     200                     205
119      Arg Leu Trp His Tyr Pro Cys Thr Ile Asn Tyr Thr Ile Phe Lys Ile
120              210                     215                     220
121      Arg Met Tyr Val Gly Gly Val Glu His Arg Leu Glu Ala Ala Cys Asn
122             225                     230                     235                     240
123      Trp Thr Arg Gly Glu Arg Cys Asp Leu Glu Asp Arg Asp Arg
124              245                     250

```

PAGE: 4

VERIFICATION SUMMARY
PATENT APPLICATION US/09/407,430

DATE: 04/24/2000
TIME: 07:33:56

Input Set: I407430.RAW

Line ? Error/Warning

Original Text
